

**SEARCH REQUEST FORM**Requestor's Name: Alan M. NathanSerial Number: 08/994,758Date: 1-13-99Phone: 308-1706 Art Unit: 2851**Search Topic:**

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

*Litigation  
Parent Patent No. 5,477,304*

**BEST AVAILABLE COPY****STAFF USE ONLY**Date completed: 1/14/99Searcher: AMN**Search Site** STIC**Vendors** IGTerminal time: 7:07 CM-1 STNElapsed time: 0:00 Pre-S DialogCPU time: 0:00 N.A. Sequence APSTotal time: 0:00 A.A. Sequence GeninfoNumber of Searches: 1 Structure SDCNumber of Databases: 1 Bibliographic DARC/Questel Other

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MATHEWS 08/994758

Page 1

file litalert

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nbr 5477304/pn

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6 1 US5477302/PN  
7 1 US5477303/PN  
8 1 US5477304/PN  
9 1 US5477305/PN  
10 1 US5477306/PN

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SEL 8

SS 1 RESULT (1)

SS 2?  
PRT FU

-1- (LEGSTAT)  
PN - US 5477304 [US5477304]  
DT - US-P  
ACT - 95.01.25 US/AE-A  
APPLICATION DATA (PATENT)  
{US 377504/95 [95US-377504] 95.01.25}  
ACT - 95.12.19 US/A  
PATENT  
ACT - 98.07.07 US/RF  
REISSUE APPLICATION FILED  
971219  
UP - 9835

SS 2?

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COVERS 1973 THRU WEEKLY UPDATE (9852)

SS 1?  
nbr 5477304/pn

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11	1	5477295/PN
12	1	5477297/PN
13	1	5477304/PN
14	1	5477305/PN
15	1	5477324/PN

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SEL 13

SS 1 RESULT (1)

SS 2?  
PRT FU

-1- (PAST)  
AN - 9827-000999  
PN - US5477304  
DT - A (UTILITY)  
OG - 98.07.07  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

SS 2?

File 345: Inpadoc/Fam.& Legal Stat. 1998/UD=9901  
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Set	Items	Description
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Ref	Items	Index-term
E1	1	PN=US 5477302
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E3	1	* PN=US 5477304
E4	1	PN=US 5477305
E5	1	PN=US 5477306
E6	1	PN=US 5477307
E7	1	PN=US 5477308
E8	1	PN=US 5477309
E9	1	PN=US 5477310
E10	1	PN=US 5477311
E11	1	PN=US 5477312
E12	1	PN=US 5477313

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S1 1 PN="US 5477304"  
? T1/9/1

1/9/1  
DIALOG(R) File 345: Inpadoc/Fam.& Legal Stat.  
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11796930  
Basic Patent (No,Kind,Date): JP 6132195 A2 940513 <No. of Patents: 003>

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 6132195 A2 940513  
PROJECTION OPTICAL DEVICE (English)  
Patent Assignee: NIPPON KOGAKU KK  
Author (Inventor): NISHI TAKECHIKA  
Priority (No,Kind,Date): JP 92284371 A 921022  
Applc (No,Kind,Date): JP 92284371 A 921022  
IPC: \* H01L-021/027; G03B-027/32; G03F-009/00  
Derwent WPI Acc No: \* G 94-194843; G 94-194843  
JAPIO Reference No: \* 180419E000111; 180419E000111  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 6140305 A2 940520  
PROJECTION ALIGNER (English)  
Patent Assignee: NIPPON KOGAKU KK  
Author (Inventor): NISHI TAKECHIKA  
Priority (No,Kind,Date): JP 92289985 A 921028  
Applc (No,Kind,Date): JP 92289985 A 921028  
IPC: \* H01L-021/027; G03B-027/32; G03F-007/20; G03F-009/00;  
H01L-021/68  
Derwent WPI Acc No: \* C 94-203742; C 94-203742  
JAPIO Reference No: \* 180442E000050; 180442E000050  
Language of Document: Japanese

UNITED STATES OF AMERICA (US)  
Patent (No,Kind,Date): US 5477304 A 951219

PROJECTION EXPOSURE APPARATUS (English)  
Patent Assignee: NIPPON KOGAKU KK (JP)  
Author (Inventor): NISHI KENJI (JP)  
Priority (No,Kind,Date): US 377504 A 950125; JP 92284371 A  
921022; JP 92289985 A 921028; US 139803 B1 931022  
Applc (No,Kind,Date): US 377504 A 950125  
National Class: \* 355053000; 355050000  
IPC: \* G03B-027/42; G03B-027/48; G03B-027/50  
Derwent WPI Acc No: \* C 94-203742; G 94-194843  
JAPIO Reference No: \* 180419E000111; 180442E000050  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):  
US 5477304 P 921022 US AA PRIORITY (PATENT)  
JP 92284371 A 921022  
US 5477304 P 921028 US AA PRIORITY (PATENT)  
JP 92289985 A 921028  
US 5477304 P 931022 US AA PRIORITY  
US 139803 B1 931022  
US 5477304 P 950125 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 377504 A 950125  
US 5477304 P 951219 US A PATENT  
US 5477304 P 980707 US RF REISSUE APPLICATION FILED  
(REISSUE APPL. FILED)  
971219

*Lepis*

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FILES - PAGE 1 of 6 (NEXT PAGE for additional files)

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---CASES & ADMINISTRATIVE DECISIONS--

IPOMNI 1 Int Prop Cases & Reg Matl

PTOMNI 1 FEDCTS, PTO, ITC, ALLREG

CASES 1 FEDCTS, PTO & ITC

FEDCTS 2 Patent cases from Fed. Cts.

CCPA 2 Ct Customs & Patent Appeals

CAFC 2 Patent cases from Fed. Cir.

PTO 2 PATAPP & COMM'R

---SECONDARY SOURCES-----

CHISUM 5 Chisum on Patents

MPEP 5 Manual of Patent Exam Proc

PTORUL 5 Patent Office Rules

MILGRM 5 Milgrim on Trade Secrets

IPLTR 5 Intell Prop Law Nwlttrs

IPLR 5 Intell Prop Law Rev Articles

\* Selected coverage 1/15/71 to 12/3/74

-----PATENTS-----

ALL 4 UTIL, DESIGN, PLANT, SIR,

REEXAM & REISS

UTIL 4 Full Text Patents from 1971\*

DESIGN 4 Full Text Patents from 1976

PLANT 4 Full Text Patents from 1976

REEXAM 4 Reexamination Certificates

REISS 4 Reissue Patents

SIR 4 Defensive Publications

ASSIGN 4 Assignee

ABSTCL 4 Abstracts & Claims

Checked all these files  
+ only found 1 listing  
in us patent file

LEV 1 - 1 OF 1 PATENT

5,477,304

<=2> GET 1st DRAWING SHEET OF 13

Dec. 19, 1995

Projection exposure apparatus

REISSUE: Reissue Application filed Dec. 19, 1997 (O.G. Jul. 7, 1998) Ex. Gp.:  
2101; Re. S.N. 08/994,758

INVENTOR: Nishi, Kenji, Kawasaki, Japan

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, Japan (03)

APPL-NO: 377,504

FILED: Jan. 25, 1995

FOR-PRIOR:

Oct. 22, 1992 Japan 4-284371  
Oct. 28, 1992 Japan 4-289985

REL-US-DATA:

Continuation of Ser. No. 139,803, Oct. 22, 1993 now abandoned

INT-CL: [6] G03B 27#42; G03B 27#48; G03B 27#50

US-CL: 355#53; 355#50;

CL: 355;

SEARCH-FLD: 355#50, 51, 53, 55

REF-CITED:

U.S. PATENT DOCUMENTS

3,538,828	11/1970	* Genovese	95#18
<=4> 4,747,678	5/1988	* Shafer et al.	350#505
<=5> 4,924,257	5/1990	* Jain	355#53
<=6> 5,004,348	4/1991	* Magome	356#401
<=7> 5,227,839	7/1993	* Allen	355#53

PRIM-EXMR: Wintercorn, Richard A.

LEGAL-RER: Shapiro and Shapiro

CORE TERMS: scanning, reticle, wafer, mask, illumination, pulse, optical, projection, substrate, photosensitive, drive, illuminance, laser, control system, scanned, emission, adjustment, fine, interferometer, constant, perpendicular, radiated, movable, beta, moving, deviation, exposure, energy, slit, rotational

ABST:

Constant speed drive of a reticle and a wafer in a relative scanning direction and positioning of the reticle and the wafer are simultaneously performed with high precision by a slit scanning exposure scheme. A reticle side scanning stage for scanning a reticle relative to a slit-like illumination area in the relative scanning direction is placed on a reticle side base. A reticle side fine adjustment stage for moving and rotating the reticle within a two-dimensional plane is placed on the reticle side scanning stage. The reticle is placed on the reticle side fine adjustment stage. Constant speed drive and positioning of the reticle and a wafer are performed by independently controlling the reticle side scanning stage and the reticle side fine adjustment stage.

5,477,304 OR 5477304

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FILE 'INPADOC' ENTERED AT 08:25:33 ON 12 JAN 1999

L1            0 S JP630128713/PN  
L2            1 S JP63128713/PN

=> s jp63128713/pn

L2 1 JP63128713/PN

=> d 12 fam ibib

L2 ANSWER 1 OF 1 INPADOC COPYRIGHT 1999 EPO

PRAI 1: JP 86-275976 861119  
(1) PI JP 63128713 A2 880601  
(2) PI JP 05029129 B4 930428

2 members, 1 priorities, 1 countries

AN: 15067089 INPADOC UW 8848 UP 881211  
TITLE: CORRECTION OF DISTORTION IN SCANNING ALIGNER

INVENTOR(S):

ORIGINAL: SUZUKI MASAKI

STANDARDIZED: SUZUKI MASAKI

PATENT ASSIGNEE(S):

ORIGINAL: MATSUSHITA ELECTRIC IND CO LTD

STANDARDIZED: MATSUSHITA ELECTRIC IND CO LTD

DOCUMENT TYPE:

Patent

PATENT INFO. TYPE: JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION

	NUMBER	DATE
PATENT INFORMATION:	JP 63128713	A2 880601
APPLICATION INFORMATION:	JP 86-275976	A 861119
PRIORITY APPLN. INFO.:	JP 86-275976	A 861119
OTHER SOURCE DERWENT:	88-192711	
OTHER SOURCE JAPIO:	120385E000067	